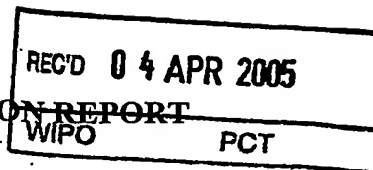


**PATENT COOPERATION TREATY**  
**PCT**  
**INTERNATIONAL PRELIMINARY EXAMINATION REPORT**  
(PCT Article 36 and Rule 70)



Applicant's or agent's file reference 03P127	<b>FOR FURTHER ACTION</b>	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416).
International Application No. <b>PCT/AU2003/001591</b>	International Filing Date (day/month/year) 28 November 2003	Priority Date (day/month/year) 29 November 2002
International Patent Classification (IPC) or national classification and IPC Int. Cl. <sup>7</sup> B23B 51/00, B23B 27/00, B23D 77/00		
Applicant MUGELI, David, Rees		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 3 sheets, including this cover sheet.

☐ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of sheet(s).

3. This report contains indications relating to the following items:

I ☒ Basis of the report

II ☐ Priority

III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

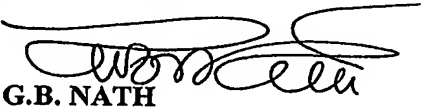
IV ☐ Lack of unity of invention

V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

VI ☐ Certain documents cited

VII ☐ Certain defects in the international application

VIII ☐ Certain observations on the international application

Date of submission of the demand 28 June 2004	Date of completion of the report 10 March 2005
Name and mailing address of the IPEA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaaustralia.gov.au Facsimile No. (02) 6285 3929	Authorized Officer  G.B. NATH Telephone No. (02) 6283 2126

**I. Basis of the report****1. With regard to the elements of the international application:\***

- ☒ the international application as originally filed.
- ☐ the description,    pages    , as originally filed,  
                                  pages    , filed with the demand,  
                                  pages    , received on    with the letter of
- ☐ the claims,    pages    , as originally filed,  
                                  pages    , as amended (together with any statement) under Article 19,  
                                  pages    , filed with the demand,  
                                  pages    , received on    with the letter of
- ☐ the drawings,    pages    , as originally filed,  
                                  pages    , filed with the demand,  
                                  pages    , received on    with the letter of
- ☐ the sequence listing part of the description:  
                                  pages    , as originally filed  
                                  pages    , filed with the demand  
                                  pages    , received on    with the letter of

**2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.**

These elements were available or furnished to this Authority in the following language which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

**3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:**

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

**4. ☐ The amendments have resulted in the cancellation of:**

- ☐ the description,    pages
- ☐ the claims,    Nos.
- ☐ the drawings,    sheets/fig.

**5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\***

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims 1-33	YES
	Claims None	NO
Inventive step (IS)	Claims None	YES
	Claims 1-33	NO
Industrial applicability (IA)	Claims 1-33	YES
	Claims None	NO

2. Citations and explanations (Rule 70.7)

**Documents:**

D1: WO 1984/003461 A (SCOTT), 13 September 1984

D2: DD 203260A (SCHWOBODA), 19 October 1983

D3: DE 29700943U1 (SANTOWSKI), 13 March 1997

**2.1 Novelty (N) and Inventive Step (IS)**

**a). Novelty**

Each of the documents D1-D3 discloses a wasted safety section (item 34, figure 1 in D1; item 3 in figure in D2 and item 15, figure 1 in D3) but none discloses the section having a "predetermined shear torque rating" as defined in Claim 1 which feature makes Claim 1 and the appended Claims 2-33 as novel.

**b). Inventive Step**

The problem identified to be solved by the alleged invention is "to reduce the safety risk" for an operator ( see lines 8-9, page 2 of the description). Prior art documents D1-D3 discloses the constructional aspects i.e providing a wasted safety section ( "fail safe shear groove cut in the box shank of the drill attachment" , see lines 23-25, page 3; and also paragraph 2, page 7 of D1).

Having identified the problem, the solution viz. providing "a predetermined shear torque rating" (line 9, claim 1) would have been obvious to a person skilled in the relevant art without having to use his/her inventive ingenuity as it is common to have predetermined ratings in cutting tool technology. Thus Claim 1 is considered to be lacking an inventive step over the prior art.

Features added to by the appended claims 2-33 relate only to conventional manufacturing techniques or are features which are typical in the devices of the type and are therefore considered not to be inventive.

**2.2 All the claims conform to the criteria of Industrial Applicability**